Index of Claims

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| 1_   | <u>a</u> | 4         |           |          |           |          |          |                 |          |       |             |          |             |  |                    |  |               |          | Γ        |          |          |              | Т        | Т            | Τ                                      | Т            | Т                  | T  | Т        |
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| 庫  | Ĕ,       | 3/1       |           |          |           |          |          | Į               | ļ        |       | 這           | r.       |             |  |                    | 11   | - 1 1         | 1111     | 1        | Final    | Ē        |              |          |              |  |              | 1                  |  |          |
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|  | 1        | =         |           |          |           |          |          |                 |          | 1     |             | 51       | <u> </u>    | 1 1  |                    | <del>                                     </del> |               |          | ┢        |          | 101      | -            |          | +            | +                                      | +-           | +                  | ╁  | †-       |
|  | 2        |           |           |          |           |          |          |                 |          |       |             | 52       |             |  | $\top$             | $\Box$   |               | -        | r        |          | 102      |              | +        | +            | ╅╴                                     | +            | +-                 | <del> </del>   | ╁╌       |
|  | 3        | =         |           |          |           |          |          |                 | $\vdash$ |       |             | 53       |             | +  | _                  | $\top$   |               |          | ۲        |          | 103      | _            | +        | +            | +-                                     | ╁            | +                  | +-   | ╁        |
|  | 4        | =         |           |          |           |          |          | T               |          |       |             | 54       |             |  | _                  | 1  | $\neg$        |          | 1        | $\neg$   | 104      | -            | +        | +-           | +                                      | ╁            | +-                 | ┢  | ╆        |
|  | 5        | =         |           |          |           |          |          |                 |          |       |             | 55       | $\Box$      | 1  |                    | 11   |               | -        | H        |          | 105      |              |          | +            | +                                      |              | ╁╌                 | ╁  | ╁╾       |
|  | 6        | =         |           |          |           |          |          | _               |          |       |             | 56       |             | +  |                    | Ħ  |               |          | ⊢        |          | 106      |              | ╁        | +            | +-                                     | +-           | +-                 | ╁  | ╁        |
|  | 7        | =         |           |          |           |          |          | $\neg$          |          |       |             | 57       |             | 1  |                    | 1  |               |          | 1        | 一        | 107      | -+           | +        | +            | ╁╴                                     | +-           | ┿                  | ╁  | ╁─       |
|  | 8        | =         |           |          |           |          |          | $\top$          |          |       |             | 58       |             |  |                    | Ħ  | $\dashv$      | -        | $\vdash$ |          | 108      | +            | +        | ┪~           | +                                      | +            | -                  |  | ┢        |
|  | 9        | =         |           |          |           |          | $\neg$   | $\top$          |          |       |             | 59       |             | 1-1  | +                  | 11   | + 1           | -        | $\vdash$ | $\dashv$ | 109      | -+           |          | +            | ┿                                      | ╁            | +                  |  | ⊢        |
|  | 10       | =         |           |          |           |          |          |                 |          |       |             | 60       |             | $\top$   |                    | $\vdash$   | $\dashv$      |          | H        | -        | 110      |              | ╁        | +-           | +                                      | +            | ╁                  | ├  | ┢╌       |
|  | 11       |           |           |          |           |          |          | 1               |          |       |             | 61       |             | 1  |                    | +  | -1-1          |          | -        | -        | 111      | $\dashv$     | +        | +            | +-                                     | ╁            | +                  | -  | ⊢        |
|  | 12       |           |           |          |           |          |          |                 |          |       |             | 62       |             | <del>                                     </del> |                    | $\vdash$   |               |          | -        | $\dashv$ | 112      | -            | +        | +            | ╁                                      | +            | +                  | ├  | ├        |
|  | 13       |           |           | $\neg$   |           |          | _ -      |                 |          |       |             | 63       |             | 1  | +-                 | $\vdash$   |               |          | H        | $\neg$   | 113      |              | +        | +-           | +                                      | ╁            | +                  | ⊢  | ┝        |
|  | 14       |           |           |          |           |          | $\neg$   | +               |          |       |             | 64       |             | +  | +                  | 1  |               |          | $\vdash$ |          | 114      | -            |          | +            | ╀                                      | +-           | +-                 | ├┈   | $\vdash$ |
|  | 15       |           | T         |          |           |          |          | 7               |          |       |             | 65       |             | +  |                    | +  |               | -        | Н        | +        | 115      |              | ╌        | ╁            | ╌                                      | +-           | +                  | ₩  | ┝        |
|  | 16       | $\exists$ | $\exists$ | _        |           |          |          | ╅┈              | T        |       |             | 66       |             | ++   |                    | ╁┼┼  | -+            |          | $\vdash$ | -+       | 116      | -            |          | +            | ╁                                      | +-           | +                  | $\vdash$   | $\vdash$ |
|  | 17       | $\neg$    | ヿ         | _        | ヿ         |          |          | 1               |          |       |             | 67       |             | ++   |                    | ╁╼┼  | $\rightarrow$ | $\dashv$ | $\vdash$ | -+       | 117      |              | +-       | +-           | +-                                     | +-           | +-                 | _  | Щ        |
|  | 18       |           |           | $\dashv$ | ┪         | -        | $\dashv$ | +-              | $\dashv$ |       | -           | 68       |             | 1 +  |                    | ++   |               | -        | ⊢        | -        | 118      |              | -        | +            | +                                      | -            | ┼                  | _  | L        |
|  | 19       | 寸         |           |          | ╛         | _        |          | <del>  -</del>  | $\neg$   |       | _           | 69       | <del></del> | ╅  | +                  | $\vdash$   | ++            | -        | ⊦        | $\dashv$ | 119      | $\dashv$     | +        | - -          | +-                                     | +-           | 十                  | $\vdash$   | _        |
|  | 20       | $\dashv$  |           | 7        | $\exists$ | _        | $\top$   | +               | $\dashv$ |       |             | 70       |             | 1-   | ~├─                | <del>   </del>                                   |               | $\dashv$ | ┝        |          | 119      |              | -        | +            | ┼                                      | ╄            |                    | <u> </u>   | -        |
|  | 21       | _         | 寸         | 寸        | _         | $\dashv$ | _        | +               | $\dashv$ |       |             | 71       |             | ╁╌┼  | ╅                  | ╁  |               | -        | ┝        |          | 120      |              | +-       | +-           | +                                      | <del> </del> |                    | $\vdash$   | Ш        |
|  | 22       | $\dashv$  | -         | _        | -         |          | +-       | +               |          |       | -+          | 72       |             | +  | +                  | ╁┼   | +             | -        | H        | $\dashv$ | 121      |              | -        | +            | ╄                                      | 4            | <del> </del>       |  |          |
|  | 23       | $\dashv$  | 7         | -        |           | $\neg +$ | +        | +               | $\dashv$ | ŀ     |             | 73       | —           |  | - -                | ╁  |               |          | ┝        | -+       | 122      |              | - -      | ┨—           | ┼-                                     | ╄            | ┺                  |  | Ш        |
| $\vdash$   | 24       | _         | $\dashv$  | $\dashv$ | _         | $\dashv$ | -        | $\dashv\dashv$  |          | ŀ     |             | 74       |             | ╁┼┼  |                    |  |               | -        | ⊢        |          | 123      | _            | +        | ╄            | 4_                                     | ļ            | ╄                  |  | Ш        |
|  | 25       | 7         | _         | -        | $\neg$    |          | +        | +-              | -        |       |             | 75       | _           | -  | +                  | -  |               | -        | ┝        | $\dashv$ | 124      | +            | +        |              | ┿                                      | ـــ          | $\perp$            | Ш  | Ш        |
| $\vdash$   | 26       | $\dashv$  | $\dashv$  | 7        | $\dashv$  | -1       |          | +               | $\dashv$ | -     |             | 76       |             |  | - -                | -  |               |          | _        |          | 125      | _            | $\bot$   | ↓_           | ↓_                                     | L            | ļ.,                | Ш  | Ш        |
|  | 27       | $\dashv$  | $\dashv$  | $\dashv$ | ┪         |          | _        | +               | ᅱ        | 1     |             | 77       |             | ++   |                    | -  | $\dashv$      | -        | L        | -+       | 126      | +            | +-       | 4_           | ├-                                     | L            | $\vdash$           | $\square$  |          |
|  | 28       | $\dashv$  | -         | 7        | _         | -+       | +        | +               | $\dashv$ |       |             | 78       |             | $\vdash +$                                       |                    | $\vdash$   | $\dashv$      |          | ⊢        |          | 127      | +            | 4        | ↓_           | <b>-</b>                               | _            | ₩                  | Ш  | Ш        |
|  | 29       | +         | +         | 十        | $\dashv$  | -+       |          | +               | -        | -     |             | 79       | -           | ╌┼   | +                  | -  | -             | -1::::   | ┡        |          | 128      | +            |          | ↓_           | ↓                                      | ┞.           | Ш                  | Ш  | Ш        |
|  | 30       | +         | +         | $\dashv$ | +         | ╅        |          | +               | -        |       |             | 80       |             |  |                    | $\vdash$   |               | -        | L        |          | 129      | _            |          | ↓_           | <u> </u>                               | ㄴ            | Ш                  |  | Ш        |
| $\vdash$   | 31       |           | $\dashv$  | -        | $\dashv$  | $\dashv$ |          | +               | -1       | 1     | -+          | 81       |             | <del>   -</del>                                  | +                  |  | ++            | -        | ļ        | _        | 130      |              |          | ┺            |  | _            | Ш                  |  |          |
|  | 32       | $\dashv$  | $\dashv$  | ╅        | $\dashv$  | $\dashv$ | +        | +               | $\dashv$ | ŀ     |             | 82       | - -         | <del> </del> —                                   |                    | <u> </u>   |               | _[::::   | L        | $\dashv$ | 131      |              | $\perp$  | <u> </u>     | <u> </u>                               |              | $\sqcup$           | $\Box$   |          |
| -  | 33       | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ |          | + -             | $\dashv$ |       |             |          |             |  |                    | $\vdash$   |               | _        |          | -        | 132      |              | 4        | <b>!</b> _   | <u> </u>                               | L.           | Ш                  | _  | Ы        |
| $\vdash$   | 34       | -+        | +         | +        | +         | +        |          | +               | -        |       | $\dashv$    | 83<br>84 |             | -  |                    | $\vdash$   | ++            | -        |          |          | 133      | $\perp$      | 4_       | 1_           | _                                      | <u> </u>     | Ш                  |  | $\sqcup$ |
| $\vdash$   | 35       | $\dashv$  | +         | +        | $\dashv$  | $\dashv$ | +        |                 | $\dashv$ | -     | $\dashv$    | 85       |             | - -  |                    | $\vdash \vdash$                                  | ++            | 4        |          |          | 134      |              | 1_       | <u> </u>     | <u>L</u>                               | $oxed{oxed}$ | Ш                  |  |          |
| $\vdash$   | 36       | $\dashv$  | -+        | $\dashv$ | $\dashv$  | +        | +        | +-1             | $\dashv$ | iii k |             |          | +           |  | +-                 |  | ++            | 4        | _        | _        | 135      |              | 4_       | <u> </u>     | L.                                     | _            | $oxed{oxed}$       |  |          |
| -  | 37       | +         | +         | -+       | +         | -+       | +        | +-+             | $\dashv$ | iii   |             | 86<br>87 | +           | -  | +                  | Щ.   |               | 4        | _        | -        | 136      | -            | 1        | <del> </del> | _                                      | <u> </u>     | Ш                  | _  | $\Box$   |
| $\vdash$   | 38       |           | +         | +        | +         | +        | +        | +-+             |          | ŀ     |             |          | -           | -  | -                  | <del>     </del>                                 | +             | 4::::    | _        | -        | 137      |              | 1_       | L            | <u> _</u>                              |              | oxdot              |  |          |
| $\vdash$   | 39       | +         | +         |          | +         | +        |          | ++              | -        | - }   |             | 88       |             |  | -                  | -  | +             | _        |          | _        | 138      |              | 1_       | <u> </u>     | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | _            | Ш                  | _[   |          |
| 1  | 40       | +         | +         | +        | +         | +        | +        | +               | -        | ŀ     | $\dashv$    | 89       |             | $\vdash \vdash$                                  | +                  | $\vdash$   |               | _        |          | _        | 139      |              | $\bot$   | <u> </u>     | <u> </u>                               |              | Ш                  |  |          |
| $\vdash$   | 41       | +         | +         | +        | +         | +        |          | +-+             | $\dashv$ | ŀ     | <b>-</b>  - | 90       |             | -  | -                  |  |               | _ ;;;;   | _        |          | 140      |              | <u> </u> |              | $oxedsymbol{oxed}$                     |              |                    | [  |          |
| <del>                                     </del> | 42       | +         |           | +        |           | +        | +        | +               |          | -     |             | 91       |             | $\vdash$   |                    | $\perp$  | +             | 4        |          |          | 141      | _            | $\perp$  | _            |  | <u> </u>     |                    | $\Box$   | _]       |
|  | 42       | +         | +         | +        | +         | +        | +        | +               | $\dashv$ | ŀ     |             | 92       | $\dashv$    | $\vdash \vdash$                                  | $\perp$            |  | ++            | 4001     |          |          | 142      |              | 1        |              |  |              |                    | $oldsymbol{ol}}}}}}}}}}}}}}}}$ |          |
|  | 44       |           | +         | -        | +         | -+-      | -{-      | ╀┤              | -        | ii-   | -           | 93       |             | $\perp \perp$                                    | $\perp$            | $\bot$   | -  -          | _        |          |          | 143      |              |          | oxdot        | $\Box$                                 |              |                    |  | _7       |
|  | 45       | +         | +         | +        | -+-       | +        |          |                 | -        | ŀ     |             | 94       |             |  | 11                 |  | -  -          | _ :::    |          |          | 144      |              |          | _            |  |              |                    | $\Box$   |          |
| $\vdash$   | 45<br>46 | +         | +         | - -      | +         | +        | -        | +-}             | 4        | ::    |             | 95       | +           | $\perp$  | $\perp \perp$      | $\perp$  | 44            | _        |          |          | 145      | $\bot$       | L        |              |  |              |                    |  | $\neg$   |
|  |          | +         | +         | +        | +         | - -      |          | ₩               | _        | L     |             | 96       |             |  | 1-1                |  | $\perp \perp$ | _ ::::[  |          |          | 146      |              |          |              |  |              | П                  | $\neg$   | $\neg$   |
|  | 47       | +         |           | +        | +         | - -      | -        | -               | _        | ŀ     |             | 97       | $\perp$     |  | $\bot \bot$        | $\bot$   | 11            | _        | _        |          | 147      |              |          |              |  |              |                    | $\neg$   | $\neg$   |
| $\vdash$   | 48       | +         | +         | +        | +         | -        | -        | ++              |          | ŀ     |             | 98       | 44          |  | $\bot \bot$        |  | $\perp \perp$ | _   [    |          |          | 148      | $oxed{oxed}$ |          |              |  |              | $\sqcap^{\dagger}$ | $\neg$   | $\neg$   |
|  | 49       | +         | +         | -        | +         | - -      |          | $\vdash \vdash$ | _        | :: L  |             | 99       | $\bot$      | _  | $\perp \downarrow$ | _ _  | $\perp$       |          |          |          | 149      |              |          |              |  |              | $\Box$             | $\neg$   | $\neg$   |
|  | 50       |           | $\perp$   | Щ.       | $\perp$   | L_       |          | $\perp \perp$   |          | :::L  |             | 100      | !           | 1  |                    |  |               |          |          | 7        | 150      |              |          |              |  |              | $\neg$             |  | $\neg$   |